Uniden®

PRO401HH
Handheld CB Radio

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INTRODUCTION

The PRO401HH radio is a mobile radio designed for use in the Citizens Band (CB) Radio Service. It will operate on any of the 40 AM frequencies authorized by the Federal Communications Commission (FCC). Your radio features a superheterodyne circuit with Phase Locked Loop techniques to assure precise frequency control.

FEATURES

- ► 40 AM channels
- ► Condenser microphone.
- ► Ceramic filter: Delivers greater selectivity and reduces adjacent channel interference.
- ► AGC (Automatic Gain Control) for a constant sound level.
- ► Automatic modulation control for a constant audio transmit modulation level.
- ► Low distortion IC audio circuit.
- ► Automatic noise limiter to reduce pulse noise.
- ► TX Power select slide switch (HI = 4W; LOW = 1W)
- ► Antenna with BNC connector.
- ► External speaker/headset jack and external MIC jack
- ► Jack for external power source and battery charger.
- ► Rechargeable (9 AA Ni-MH) or Alkaline (9 AA) batteries
- ► Internal battery select switch (alkaline or rechargeable)

SAFETY NOTICE

- ► Do not expose the PRO401HH to water or extreme temperatures.
- ► Do not leave batteries installed over a long period of time as leakage may occur and cause damage to the radio.
- ► Never use different batteries from the ones suggested.

► Never use harsh chemicals to clean this radio. Use a damp soft cloth.

UNIDEN CONTACT INFORMATION

You can get answers 24/7 at our website: www.uniden.com.

If You	Contact Uniden's	Phone
have a question or problem	Customer Care Line for CB Radios*	800-620-7531
need a part or accessory	Parts Department*	800-554-3988
need special assistance due to a disability	Accessibility Help Line	800-874-9314 (voice or TTY)

*During regular business hours, Central Standard Time. Visit our website for detailed business hours.

INCLUDED IN YOUR PACKAGE

If any of these items are missing or damaged, immediately contact your place of purchase or Uniden's Parts Department.

PRO401HH Radio

Antenna

DC Power Cable

Other printed materials

Not shown: Wrist Strap

PARTS OF THE RADIO

1 **Belt Clip**

2 **Battery Compartment**

NOTE: A switch inside the compartment lets you select rechargeable or Alkaline batteries.

3 **Channel UP/DOWN**
Selects which channel the radio will transmit or receive on.

4 **Push to Talk**
Allows you to transmit.

5 **Antenna Jack**
Connect the detachable antenna to this jack.

6 **Squelch knob**
Adjusts the level at which the radio squelches or suppresses weak radio signals. To filter out weaker signals and background noise, turn the knob clockwise to increase the squelch level. To decrease the squelch level so you can hear weaker radio signals, turn the knob counter-clockwise.

7 **Volume Control**
Powers on the radio and adjusts the volume.

8 **Microphone**
Speak into the microphone when transmitting.

9 **Wrist Strap Slot**
Connect the wrist strap to the belt clip.

10 **Speaker Jack**
Connects to an external speaker (not includerd). The internal speaker is disabled.

11 **Microphone Jack**
Connects to an external microphone (not included).

12 **13.8 V DC External Power Jack**
Provides power to the unit. you can use external power sources such as a car battery to power the unit and to recharge the Ni-Cd rechargeable batteries.

13 **Transmit Power Switch (HI/LOW)**
Select a power output level for transmission.

NOTE: FCC rules reserve Channel 9 for motorist assistance and other emergency communications. Channel 9 should only be used in situations where there is immediate danger to the safety of individuals or the protection of property.

Make sure you have read and understood part 95 of the FCC rules and regulations before using the transmitter.

SET UP

INSTALL ANTENNA

Install the included rubber antenna onto the radio.

The PRO401HH can also use any type of 50 Ω / 27 MHz band antenna. Although a telescoping antenna might provide better transmission and receiving, it is not as compact or easy to use as the antenna included in the package.

CONNECTING TO POWER

Your PRO401HH can operate on DC power or batteries.

DC Power

1 Plug the DC power coverter into the PRO401HH.

2 Plut the other end into your vehicle's cigarette lighter/DC power conversion plug.

3 The red power LED is steady on when the unit is connected to external power (not batteries).

WARNING! DO NOT connect this equipment to a power supply if you are not absolutely certain of the grounding type!

Battery Power

You can use either 9 non-rechargeable alkaline batteries or 9 rechargeable Ni-MH batteries with this unit.

1 Open battery cover.

2 Set the internal switch to match the battery type you are using [either alkaline or rechargeable (Ni-MH) batteries].

3 Insert the 9 batteries according to the directions indicated inside the battery compartment.

4 Close battery cover.

LED Display

The LED display turns off after 1.5 seconds to conserve battery power. It will also turn off 1.5 seconds after you close Squelch.

To see the display again, open Squelch.

Low Power Indication

The red LED blinks when battery power is low. Replace/recharge the batteries or connect to a power source.

OPERATION AND MAINTENANCE

BASIC OPERATION

Turning the radio on	Turn the **Volume** knob clockwise until it clicks and the display backlight comes on.
Turning the radio off	Turn the **Volume** knob counter-clockwise until it clicks and the display backlight turns off.
Selecting a channel	Press the Channel UP or DOWN button on the side to move up or down the channel list.
Changing the volume	Turn the **Volume** knob clockwise to increase the volume; turn it counter-clockwise to decrease the volume.

Transmitting	– Tune the radio to the channel you want to transmit on, and listen to make sure the channel is clear. – Press and hold the **PTT** button. – Hold the microphone about 2 inches away from your mouth and speak in a normal voice. – Release the PTT button to listen for a response.

NOTE: Make sure you have read and understood part 95 of the FCC rules and regulations before using the transmitter.

CB COMMUNICATION CODES

The “10” code allows you to communicate easier in noisy environments. The following table lists some of the most common codes and their meaning.

CODE	MEANING
10-1	Receiving poorly
10-2	Receiving well
10-3	Stop transmiting
10-4	OK - Understood
10-6	Busy - Stand By
10-7	Out of service - Leaving air
10-8	In service - Subject to call
10-9	Please repeat
10-10	Transmission completed - Standing by
10-13	Road advice - Weather conditions
10-20	What is your location?
10-33	Emergency traffic
10-36	Exact time
10-41	Switch to channel

CODE	MEANING
10-62	Cannot receive - use phone
10-70	Fire at _____
10-200	Police needed at _____

MAINTENANCE

Clean the unit with a damp cloth only; never use harsh chemicals.

TROUBLESHOOTING

If your radio is not performing to your expectations, please try these simple steps. If these steps don't solve your problem, call the Uniden Customer Service Center.

PROBLEM:	THINGS TO TRY:
Radio won't turn on (no power)	Check the radio's power cord and all connections. Check the fuse in the radio's power cord. Check your vehicle's electrical system.
Poor reception	Adjust the squelch level. Check the antenna, cable and connectors.
Background noise	Adjust the squelch level.
Weak transmission	Check the antenna, cable and connectors. Check the antenna grounding. Check for corrosion on the connectors.

SERVICE AND REPAIR INFORMATION

- ► Save your purchase receipt for proof of warranty.
- ► When ordering parts, it is important to specify the correct model number of this radio (PRO401HH).
- ► It is the user's responsibility to make sure the radio is operating in accordance with the FCC Citizens Radio Service regulations at all times.

SPECIFICATIONS

GENERAL	
Channels	40 AM
Frequency Range	26.965 to 27.405 MHz
Frequency Control	Phase Locked Loop (PLL) synthesizer
Frequency Tolerance	±0.005%
Operating Temperature	14ºF to 131ºF (-10ºC to +55ºC)
Microphone	Electret Type
Input Voltage	13.8 V DC nom, 10.9VDC – 15.6VDC
Current Drain	TX full mod., 1.7A
RX	with max. audio output, 1.7A
Size	2.16 x 7.1 x 1.7 in (55 x 180 x 45 mm)
Weight	0.56 lbs (255 g).
LED Meter	Indicates relative RF output and received signal strength
TRANSMITTER	
Power Output	4 Watts @13.8 VDC
Modulation	85% - 95%
Freq. Response	400 Hz – 2.5 KHz
Output Impedance	50 ohms, unbalanced
RECEIVER	
Sensitivity	<1 µV for 10 dB; (S + N) /N typical
Selectivity	6 dB @ 7kHz, 70 dB @ 10kHz typical
I.F. Frequency	Double Conversion Superheterodyne 1st - 10.965 MHz 2nd - 455 kHz
Automatic Gain Control (AGC)	less than 10dB change in audio output for inputs from 10 to 50,000 microvolts

Squelch	Adjustable; threshold less than1µV
Audio Output Power	0.5 watts max. @ 8 ohms
Freq. Response	300 to 2000 Hz
Distortion	less than 8% at 1KHz
Internal Speaker	8 ohms, 1 watts

Specifications and features are subject to change without notice.

COMPLIANCE INFORMATION

FCC PART 15 (UNITED STATES)

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation. Privacy of communications may not be ensured when using this radio.

Changes or modifications to this product or use of accessories not expressly approved by Uniden, or operation of this product in any way other than as provided in the Uniden Owner's Manual could void your authority to operate this product.

INDUSTRY CANADA NOTICE

This device complies with Industry Canada license-exempt RSS standard. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation. Privacy of communications may not be ensured when using this radio.

Changes or modifications to this product or use of accessories not expressly approved by Uniden, or operation of this product in any way other than as provided in the Uniden Owner's Manual could void your authority to operate this product.

Cet appareil est conforme la norme d'Industrie Canada exempt de licence RSS

(s). Son fonctionnement est soumis aux deux conditions suivantes : (1) cet appareil ne peut pas provoquer d'interférences, et (2) cet appareil doit accepter toute interférence, y compris les interférences qui peuvent causer un mauvais fonctionnement de l'appareil.

Tous les changements apportés à cet appareil, s'ils ne sont pas expressément approuvés par Uniden ou toute utilisation de celui-ci d'une autre manière que celle décrite dans ce guide peut annuler votre autorisation de le faire fonctionner.

ONE-YEAR LIMITED WARRANTY

WARRANTOR: UNIDEN AMERICA CORPORATION ("Uniden")

ELEMENTS OF WARRANTY: Uniden warrants, for one year, to the original retail owner, this Uniden Product to be free from defects in materials and craftsmanship with only the limitations or exclusions set out below.

WARRANTY DURATION: This warranty to the original user shall terminate and be of no further effect 12 months after the date of original retail sale. The warranty is invalid if the Product is (A) damaged or not maintained as reasonable or necessary, (B) modified, altered, or used as part of any conversion kits, subassemblies, or any configurations not sold by Uniden, (C) improperly installed, (D) serviced or repaired by someone other than an authorized Uniden service center for a defect or malfunction covered by this warranty, (E) used in any conjunction with equipment or parts or as part of any system not manufactured by Uniden, or (F) installed or programmed by anyone other than as detailed by the owner's manual for this product.

STATEMENT OF REMEDY: In the event that the product does not conform to this warranty at any time while this warranty is in effect, warrantor will either, at its option, repair or replace the defective unit and return it to you without charge for parts, service, or any other cost (except shipping and handling) incurred by warrantor or its representatives in connection with the performance of this warranty. Warrantor, at its option, may replace the unit with a new or refurbished unit. THE LIMITED WARRANTY SET FORTH ABOVE IS THE SOLE AND ENTIRE WARRANTY PERTAINING TO THE PRODUCT AND IS IN LIEU OF AND EXCLUDES ALL OTHER WARRANTIES OF ANY NATURE WHATSOEVER, WHETHER EXPRESS, IMPLIED OR ARISING BY OPERATION OF LAW, INCLUDING, BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THIS

WARRANTY DOES NOT COVER OR PROVIDE FOR THE REIMBURSEMENT OR PAYMENT OF INCIDENTAL OR CONSEQUENTIAL DAMAGES. Some states do not allow this exclusion or limitation of incidental or consequential damages so the above limitation or exclusion may not apply to you.

LEGAL REMEDIES: This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. This warranty is void outside the United States of America.

PROCEDURE FOR OBTAINING PERFORMANCE OF WARRANTY: If, after following the instructions in the owner's manual you are certain that the Product is defective, pack the Product carefully (preferably in its original packaging). The Product should include all parts and accessories originally packaged with the Product. Include evidence of original purchase and a note describing the defect that has caused you to return it. The product should be shipped freight prepaid, by traceable means, to warrantor at:

Uniden America Service
c/o Saddle Creek
743 Henrietta Creek Rd.
Roanoke, TX 76262

(800) 620-7531, 8 a.m. to 5 p.m., Central, Monday through Friday